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## CONTACT

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## TECHNICAL SKILLS

### LEADERSHIP & ARCHITECTURE

Tech Leadership • Player-Coach Model  
• Legacy Modernization • System Design • Agile (SAFe/Scrum) • Technical Mentoring

### FRONTEND & APPS

React (Hooks, Context) • TypeScript • Next.js • Electron • Tailwind CSS • Angular • Responsive Design

### BACKEND & SYSTEMS

Node.js (Express/NestJS) • Java (Spring Boot) • Go • Scala • Kafka • RESTful APIs • Microservices

### DEVOPS & CLOUD

AWS (ECS, S3, CloudFront, Secrets) • Docker • CI/CD (GitHub Actions, Jenkins) • IaC (Terraform) • Monitoring (Grafana, CloudWatch)

### DATA & SECURITY

PostgreSQL • MongoDB • Redis • NoSQL • Snyk / SonarQube • Data Decoupling

### AI & INNOVATION

AI Agent Integration • Generative AI APIs • Prompt Engineering • Model Fallback Strategies • AI-Driven Automation

# Guillermo Pérez Ruiz

## Tech Lead (Hands-On) / Senior Full-Stack Engineer

Senior Engineer & Tech Lead with over 7 years of experience in platform modernization, scalable cloud architectures, and advanced automation. I act as a player-coach, bridging the gap between product strategy and engineering execution through direct implementation of high-impact changes.

## PROFESSIONAL EXPERIENCE

### Tech Lead (Hands-On) / Senior Full-Stack Engineer 2023 – Present

MAHLE SmartBike Systems | Remote

- Technical Leadership & Strategy: Managed team workflows, led technical decision-making, and aligned product requirements with architectural scalability.
- Legacy Modernization: Transformed a monolithic React/Express application with severe technical debt (no tests, no clear architecture) into a modern, micro-service ready system.
- Cloud Infrastructure: Fully dockerized the environment and migrated all services to AWS ECS (Fargate) with auto-scaling, ALB, and secure IAM policies.
- Frontend Orchestration: Migrated web frontend to S3 + CloudFront, optimizing global delivery, reducing costs and implementing custom WAF rules.
- Advanced CI/CD & Quality: Engineered automated pipelines with branch synchronization, release blocking mechanisms, and security gates using Snyk and SonarQube.
- React Evolution: Executed a zero-downtime progressive migration from Class Components to Hooks and TypeScript, improving development velocity and type safety.
- Data Layer Decoupling: Optimized storage by separating raw location data to S3, session management to Redis, and volatile configurations to MongoDB.
- Electron & Low-Level Hardware: Built and maintain an Electron desktop app for EOL manufacturing, integrating low-level CAN bus/UDS protocols for bike diagnostics.
- Observability & Monitoring: Implemented comprehensive monitoring with Grafana dashboards, CloudWatch alarms and health-check systems.

React Node.js AWS (ECS/S3/ALB/Secrets) TypeScript Redis Docker Electron  
CAN bus UDS Grafana

### QA-DevOps & Full-Stack Developer / Tech Lead 2020 – 2023

Izertis S.A. (Client: Inditex) | Remote

- Enterprise Automation: Developed mass-analysis scripts to audit thousands of repositories, evaluating technical health across different departments.
- Application Discovery Platform: Headed the development of 'Yellow Pages' (React/Spring Boot), a centralized platform used company-wide to discover and manage services.
- Quality Standardization: Enforced quality gates (SonarQube, Jacoco) and unit test thresholds. Managed the global migration from Bamboo to GitHub Actions.
- Distributed Systems: Integrated real-time data synchronization using Kafka and implemented dedicated search engines for high-performance service discovery.
- Technical Auditing & Mentoring: Conducted periodic audits to ensure compliance with quality standards and provided training on testing and pipeline configuration.

React Spring Boot Kafka GitHub Actions Grafana Go SonarQube Snyk  
Jacoco

**Cognizant Technology Solutions | International / Valladolid**

- Digital Banking Evolution: Developed and modernized banking flows, migrating legacy AngularJS components to modern Angular 4+.
- Microservices Architecture: Designed and implemented high-criticality financial microservices from scratch using Spring Boot and Scala.
- Engineering Excellence: Acted as a technical reference within the squad, conducting rigorous code reviews and implementing SonarQube standards.
- Agile Delivery: Operated within complex Scrum/SAFe frameworks, delivering high-integrity transactional features to thousands of bank customers.
- International Operations: Collaborated daily with distributed teams in Belgium, India, and the Czech Republic in a highly disciplined environment.

Angular   Spring Boot   Microservices   Jenkins   Scrum   Scala   AWS  
SonarQube

## SELECTED PROJECTS

**Adventure Forge**

Live

An AI-powered 'choose your own adventure' engine. Built with a high-availability fallback system for LLMs and image generation models, featuring persistent game states and multi-genre support.

 [Live Demo](#)  [GitHub](#)

**Galactic Conquest**

In Development

A space-themed procedural deckbuilder roguelike. Utilizes AI to dynamically generate cards, encounters, and world content via modular JSON architectures.

 [GitHub](#)

**Crear es Arte**

Live

Professional e-commerce platform for artisan crafts. Features automated deployment pipelines, SEO optimization, and a seamless checkout experience.

 [Live Demo](#)  [GitHub](#)